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Ap	plication No.	Applicant(s)
10	/658,006	ZHANG ET AL.
Notice of Allowability Ex	aminer	Art Unit
	nest G. Therkorn	1723
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS (OR herewith (or previously mailed), a Notice of Allowance (PTOL-85) or or NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGH of the Office or upon petition by the applicant. See 37 CFR 1.313 and	REMAINS) CLOSED in other appropriate commu TS . This application is s	inication will be mailed in due course. THIS
1. 🖾 This communication is responsive to <u>September 9, 2003; Dece</u>	ember 29, 2003; and Apr	<u>il 30, 2003</u> .
2. The allowed claim(s) is/are 1-16 and 27-38.		
3. \boxtimes The drawings filed on <u>09 September 2003</u> are accepted by the	e Examiner.	
4. Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: 1. Certified copies of the priority documents have be 2. Certified copies of the priority documents have be 3. Copies of the certified copies of the priority documents have be 3. Copies of the certified copies of the priority documents have be 3. Copies of the certified copies of the priority documents have be 3. Copies of the certified copies of the priority documents have be 3. Copies of the certified copies of the priority documents have be 3. Copies of the certified copies of the priority documents have be 4. Copies of the priority documents have be 4. Copies of the priority documents have be 5. Certified copies of the priority documents have be 6. The "MAILING DATE" of the priority documents have be submitted in ABANDONMENTHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted in ABANDONMENTHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 6. CORRECTED DRAWINGS (as "replacement sheets") must be (a) including changes required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's A Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84 each sheet. Replacement sheet(s) should be labeled as such in the attached Examiner's comment regarding REQUIREMENT FO	en received. en received in Application nents have been received his communication to file T of this application. d. Note the attached EX eason(s) why the oath of the submitted. The spatent Drawing Review mendment / Comment of the ader according to 37 CI of BIOLOGICAL MAT	In No If in this national stage application from the din this national stage application from the ear reply complying with the requirements AMINER'S AMENDMENT or NOTICE OF redeclaration is deficient. In (PTO-948) attached In in the Office action of the drawings in the front (not the back) of FR 1.121(d). ERIAL must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	— 6. ⊠ Interview S Paper No 7. ⊠ Examiner's	Informal Patent Application (PTO-152) Summary (PTO-413), /Mail Date S Amendment/Comment S Statement of Reasons for Allowance Ernest G. Therkorn Primary Examiner Art Unit: 1723

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The petition under 37 CFR 1.48 c of December 29, 2003 has been approved.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In the specification, page 14, after line 18, the following has been inserted:

- - The following two paragraphs are from column 8, lines 17-55 of U.S.

Patent No. 6,627,882, formally incorporated by reference U.S. Patent Application 09/748,518:

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The present invention relates to an electrospray device for spraying a fluid which includes an insulating substrate having an injection surface and an ejection surface opposing the injection surface. The substrate is an integral monolith having either a single spray unit or a plurality of spray units for generating multiple sprays from a single fluid stream. Each spray unit includes an entrance orifice on the injection surface; an exit orifice on the ejection surface; a channel extending between the entrance orifice and the exit orifice; and a recess surrounding the exit orifice and positioned between the injection surface and the ejection surface. The entrance orifices for each of the plurality of spray units are in fluid communication with one another and each spray unit generates an electrospray plume of the fluid. The electrospray device also includes an electric field generating source positioned to define an electric field surrounding the exit orifice. In one embodiment, the electric field generating source includes a first electrode attached to the substrate to impart a first potential to the substrate and a second electrode to impart a second potential. The first and the second electrodes are positioned to define an electric field surrounding the exit orifice. This device can be operated to generate multiple electrospray plumes of fluid from each spray unit, to generate a single combined electrospray plume of fluid from a plurality of spray units, and to generate multiple electrospray plumes of fluid from a plurality of spray units. The device can also be used in conjunction with a system for processing an electrospray of fluid, a method of generating an electrospray of fluid, a method of mass spectrometric analysis, and a method of liquid chromatographic analysis.

Another aspect of the present invention is directed to an electrospray system for generating multiple sprays from a single fluid stream. The system includes an array of a plurality of the above electrospray devices. The electrospray devices can be provided in the array at a device density exceeding about 5 devices/cm², about 16 devices/cm², about 30 devices/cm², or about 81 devices/cm². The electrospray devices can also be provided in the array at a device density of from about 30 devices/cm² to about 100 devices/cm².

Authorization for this examiner's amendment was given in a telephone interview with Joseph M. Noto on June 17, 2004.

In the preliminary amendment of September 9, 2003, after "2002", - - , now abandoned - - has been inserted.

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Any inquiry concerning this communication should be directed to E. Therkorn at telephone number (571) 272-1149. The official fax number is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ernest G. Therkorn Primary Examiner Art Unit 1723

EGT June 17, 2003